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L3: Entry 2 of 2   File: USPT   Jun 15, 1999

DOCUMENT-IDENTIFIER: US 5911687 A
TITLE: Wide area medical information system and method using thereof

Detailed Description Text (99):
S1209, S1210: The doctor inputs the symptom of the patient under treatment at
present and retrieves the case database 606.

Detailed Description Text (110):
The characteristic of the aforementioned embodiment is the retrieval process of
S1109 and S1110 of the case database 606. It will be explained in detail hereunder
by referring to FIGS. 18, 19, 20, and 21.

Detailed Description Text (111):
FIG. 19 shows the internal structure of the case database 606 of the present
invention. The database comprises a database for case retrieval 1401 and databases
for various results such as inspection and radiographic image (a database for test
result 1402 and a database for radiographic image 1403). Data is downloaded to the
case record file for patients under care 307 on the file server 301 on the patient
side 102 from the management center 104 via the wide area network 100.

Detailed Description Text (112):
The database for case retrieval 1401 holds a plurality of retrieval informations
such as disease name, disease location, symptom, etc. as key information and holds
patient number, patient basic information, and clinic summary as data information.
The key information includes characteristics such as disease name, disease
location, symptom, etc. which are extracted from the doctor's diagnosis of each
examined patient and input by a doctor himself as code information or which are
selected and input from the retrieval key menu indicated beforehand. The clinic
summary information is summary information of clinical progress such as
prescription, examination, operation, etc. and the summary when an inpatient leaves
the hospital is a typical one.

Detailed Description Text (113):
The databases for various results 1402 and 1403 hold the results of examination and
radiograph photo-taking of past real patients or doctor's diagnosis information for
them for each patient and have the patient number or patient name as a retrieval
key. When a doctor retrieves the aforementioned case database, he retrieves the
database for case retrieval 1401 using the disease name, disease location, symptom,
etc. as a retrieval key first and obtains rough information regarding past patients
having the same symptom on the clinic terminal 304. Thereafter, if necessary, he
retrieves the databases for various results 1402 and 1403 of those patients by each
patient number, etc. and displays more detailed information on the clinic terminal
304.

Detailed Description Text (114):
FIG. 18 is a flow chart showing the procedure of retrieval and display of the care
database 606 of the present invention. This procedure is executed when at S1209 to
S1211 shown in FIG. 12, that is, the treatment action is executed, the disease of a

patient is diagnosed as being an incurable disease and the treatment data of a past real patient having a similar case to that of the patient under treatment is retrieved by using the case database in the management center 104.

Detailed Description Text (115):
S1301: Firstly, the doctor inputs a plurality of retrieval informations such as disease name, disease location, symptom, etc. expressing characteristics of the symptom of the patient under treatment. These retrieval informations are inputted directly by the doctor or selected and input from the retrieval menu indicated beforehand.

Detailed Description Text (116):
S1302: The clinic terminal 304 searches the database for care retrieval 1401 from the input retrieval informations and displays a list of patient name and patient basic information of the corresponding patient. An example of the display screen in this case is shown in FIG. 20.

Detailed Description Text (118):
S1304: The clinic terminal 304 receiving it extracts the treatment summary of the selected patient from the database for care retrieval 1401 and displays it on the screen. The treatment summary is treatment summary information such as prescription, inspection, radiograph photo-taking, etc. which is represented by the summary when an inpatient leaves the hospital and an example of the display screen is shown in FIG. 21.

Detailed Description Text (120):
S1306: When the aforementioned item requiring display of detailed contents is selected, the clinic terminal 304 retrieves the database for various results (for example, the database for retrieval result) of the corresponding patient by the patient number or patient name and displays the designated detailed information on the screen. Thereafter, when there is another item to be referred to, the clinic terminal 304 returns to S1305. When the clinic terminal 304 desires to refer to the case of another patient, it returns to S1303.

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